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(54) Title: PROCESS FOR PREPARING AN OIL CONTAINING ONE OR MORE LONG-CHAIN POLYUNSATURATED FATTY ACIDS DERIVED FROM BIOMASS; FOODSTUFF OR NUTRITIONAL, COSMETIC OR PHARMACEUTICAL COMPOSITION CONTAINING IT

(57) Abstract: A stable oil containing LC-PUFAs in the form of triacylglycerols, in particular arachidonic acid (ARA), dihomogam-malinolenic acid (DHGLA), docosahexaenoic acid (DHA) or eicosapentaenoic acid (EPA), may be prepared by direct pressing of one or more biomasses obtained from the culture of a microorganism, especially of a fungus or of a microalga containing the acids ARA, DHGLA, DHA or EPA leading to a first press oil and by bringing a carrier oil entering into the composition of a foodstuff, a cosmetic or pharmaceutical product, into contact with the biomass cake, followed by pressing leading to a second press oil, and then by combining the pressed oils and refining the mixture under controlled conditions.